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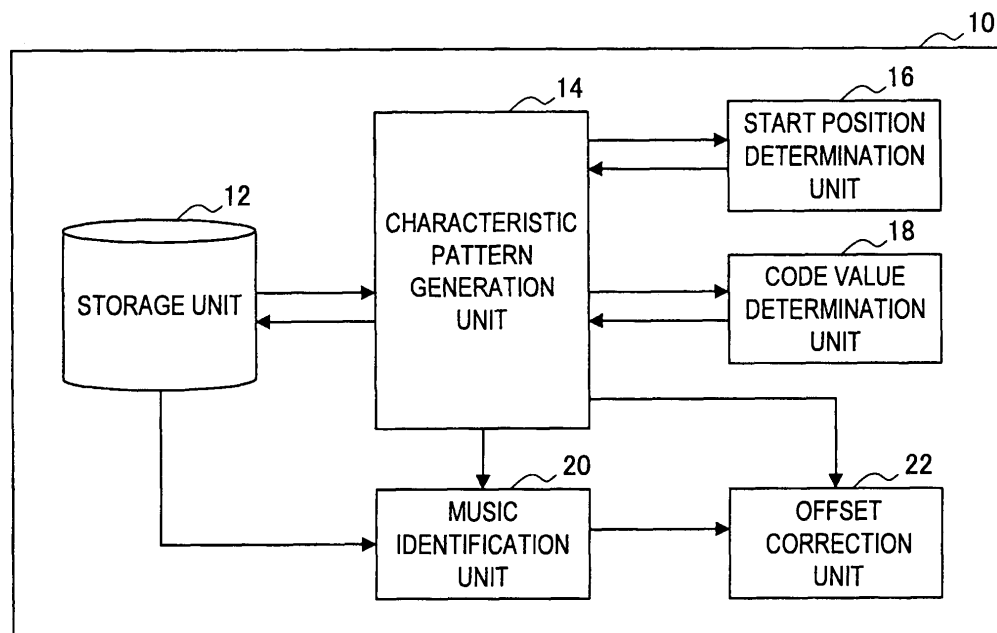
(30) Priority: **03.09.2008 JP 2008226344**

(54) **Music processing method, music processing apparatus and program**

(57) There is provided a music processing method including the steps of:  
determining code values according to a volume transition in every certain period starting from a coding start position on a time axis in music data; and  
generating a characteristic pattern indicating a charac-

teristic of a volume transition of the music data using a series of the code values determined over plural periods. The code value can be configured to indicate whether an average volume in a certain period is increased or decreased from an average volume in a previous period, for example.

**FIG.3**





## EUROPEAN SEARCH REPORT

Application Number  
EP 09 25 1941

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2005/273328 A1 (PADHI KABI P [SG] ET AL PADHI KABI PRAKASH [SG] ET AL) 8 December 2005 (2005-12-08) * paragraphs [0002], [0 18], [0025], [0033], [0038], [0039], [0052]; figures 2A,2B, 3,4 *	1-7,9, 12,13	INV. G10H1/40  ADD. G11B27/28
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 17 February 2011	Examiner Feron, Marc
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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EPO FORM 1503 03.82 (P04C01)



## EUROPEAN SEARCH REPORT

Application Number  
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The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
Place of search Munich		Date of completion of the search 17 February 2011	Examiner Feron, Marc
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

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EPO FORM 1503 03.02 (P04C01)



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**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1, 2, 12, 13

coding of music volume differences from one interval to the next to generate a characteristic pattern

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2. claims: 3, 9, 10

Determining a start window according to music volume being above average so as to generate a characteristic pattern indicating volume transitions from that start window

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3. claims: 4-8

Determining music similarities according to characteristic patterns of music volume transitions

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4. claim: 11

correcting an offset of music data or metadata based on the average volume in a window exceeding an average music volume

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 09 25 1941

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
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17-02-2011

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